SRDS Report No. RD-69-22, VOL. (32)

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## FINAL REPORT

Contract No. FA-67-WAI-129 Project No. 197-641-01R

# CLIMATOLOGICAL SUMMARIES

VISIBILITIES BELOW 1/2 MILE
AND CEILINGS BELOW 200 FEET
Volume 32

PITTSBURGH, PENNSYLVANIA
GREATER PITTSBURGH INTERNATIONAL AIRPORT

June 1969

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Prepared fo-

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
Systems Research & Development Service

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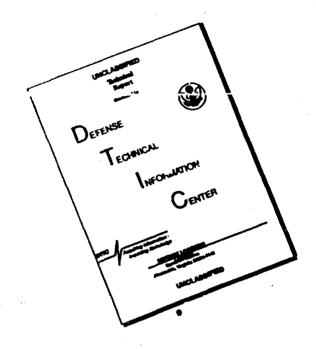
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Contract No. FA-67-WAI-129 Project No. 197-641-01R SRDS Report No. RD-69-22

CLIMATOLOGICAL SUMMARIES

VISIBILITIES BELOW 1/ MILE AND CEILINGS BELOW 200 FEET

JUNE 1969

This report has been prepared by U. S. Department of Commerce, Environmental Science Services Administration, Environmental Data Service, National Weather Records Center, Asheville, N.C. for the Systems Research and Development Service, Federal Aviation Administration, under Contract No. FA-67-WAI-129. The contents of this report reflect the views of the contractor, who is responsible for the facts and the accuracy of the data presented herein, and do not necessarily reflect the official views or policy of the FAA. This report does not constitute a standard, specification or regulation.

## CONTENTS

LIST OF TABLES	1
INTRODUCTION	3
ENVIRONMENT AND INSTRUMENTATION OF STATION	4
NATURE OF DATA	5
EXPLANATION OF TABLES	6
REPORTED VISIBILITY AND CEILING VALUES VERSUS INTERVALS OF DURATION	7
WEATHER CATEGORIES OF AIRCRAFT LANDING SYSTEMS VERSUS INTERVALS OF DURATION BASED ON TABLE D	8
PERCENTAGE FREQUENCY OF WIND DIRECTION VERSUS SPEED GROUPS	8
WEATHER CATEGORIES OF LANDING SYSTEMS VERSUS INTERVALS OF DURATION BASED ON TABLE E	9
EXPLANATION OF TABLE E	10
ACKNOWLEDGEMENTS	10
TABLES	11-29

#### LIST OF TABLES

TABLE		PAGE
A	LIST OF STATIONS FOR WHICH SUMMARIES HAVE BEEN PREPARED	11
В	WEATHER LIMITS OF AIRCRAFT LANDING OPERATIONS	12
С	Relationship of Categories of Aircraft Landing Operations and meteorological ceiling and Visibilities - Current Practice	13
D	RVR - METEOROLOGICAL VISIBILITY RELATIONSHIP, CURRENT PRACTICE	14
E	RELATIONSHIP OF CATEGORIES OF AIRCRAFT LANDING OPERATIONS AND METEOROLOGICAL CEILING AND VISIBILITIES - CIRCULAR N	15
F	RVR - METEOROLOGICAL VISIBILITY, CIRCULAR N	16
TABLE		
I-IX	VISIBILITIES AND CEILINGS VERSUS INTERVALS OF DURATION	17
1	Visibility equal to or greater than 1/2 mile when ceiling is less than 200 ft.	
п	Visibility, irrespective of ceiling.	
Ш	Visibility, ceiling 100 ft.	
IV	Visibility, ceiling zero.	
V	Visibility, ceiling 100 ft. or zero.	
VI	Total time at or below each visibility classed as one incident, irrespective of ceiling.	
νn	Total time at or below each visibility classed as one incident, ceiling 100 ft.	
VIII	Total time at or below each visibility classed as one incident, ceiling zero.	
IX	Total time at or below each visibility classed as one incident, ceiling 100 ft. or zero.	
x	CATEGORIES OF AIRCRAFT LANDING OPERATIONS VERSUS INTERVALS OF DURATION (based on Table C) - YEARLY SUMMARY	18
ХI	WIND DIRECTION VERSUS SPEED BY PERCENTAGE FRE- QUENCY (13 stations, listed on page 6)	19

TABLES		
KII-XXI	CATEGORIES OF AIRCRAFT LANDING OPERATIONS VERSUS INTERVALS OF DURATION (Based on Table E)	
Each with	four sections:	PAGE
	1. 0700-1359 Local Standard Time	
	2. 1400-2159 Local Standard Time	
	3. 2200-0659 Local Standard Time	
	4. All Hours	
хп	All conditions.	20
XIII	Temperature less than 33°F.	21
XIV	Temperature less than 33 F, with fog, no precipitation and winds of less than 9 knots.	22
xv	Temperature less than 33°F, with fog, no precipitation and wind 9-12 knots.	23
xvi	Temperature less than 29°F.	24
XVII	Temperature less than 29°F, with fog, no precipitation and wind less than 9 knots.	25
xvIII	Temperature less than 29°F, with fog, no precipitation and wind 9-12 knots.	26
XIX	Temperature greater than 32° F.	27
xx	Temperature greater than 32° F, with fog, no precipitation and wind less than 9 knots.	28
XXI	Temperature greater than 32 with fog, no precipitation and wind 9-12 knots.	29

#### INTRODUCTION

The tables contained herein have been prepared and organized for use in evaluating the cost/benefits of all weather landing systems and fog dissipation techniques. Thus, the time intervals of duration of the categories of weather are significant in determining the times of the delay, diversion or cancellation of an aircraft flight resulting from a restricted weather category. This information together with the number and types of aircraft affected by the restricted weather and the costs of a delay, diversion or cancellation combine to provide the total costs resulting from the weather restrictions.

Climatological summaries have been prepared for 41 airports. Their location and associated volume numbers are listed in Table A.

#### ENVIRONMENT AND INSTRUMENTATION

#### PITTSBURGH, PENNSYLVANIA

#### GREATER PITTSBURGH INTERNATIONAL AIRPORT

The Greater Pittaburgh International Airport is situated on a hill, nearly surrounded by valleys. The surrounding country is rugged in character with hills rising between numerous small river valleys. The highest point in the vicinity is 1340 feet above sea level.

At times heavy ground fog develops along the river valleys and winds with a trajectory from the southeast, south, or southwest may cause the fog to overflow the valleys and drift over the airport.

The tables in this publication are based on the period Jaruary 1, 1956-December, 1965, Ceilometer measurements of ceiling height were made for the entire period. Transmissometers (500 ft. baseline) were commissioned on runway 28L on June 10, 1957, runway 10L on April 30, 1964, and (250 ft. baseline) runway 28R on December 9, 1965. Location of the airport weather station, its elevation, and the height of wind instrumentation were as follows:

<u>From</u>	<u>To</u>	Lat. N.	Long. W.	Height of Wind Instrument Feet above ground	Station Elevation Feet above MSL
1- 1-56	10-23- <b>58</b>	40° 30°	80° 13'	119	1151
10-24-58	12-31-65	40° 30°	80° 13'	<b>2</b> 0	1151

#### NATURE OF DATA

The data used in the preparation of the climatological tables were extracted from 10 years of WBAN 10-A forms from January 1956 through December 1965. There were two exceptions: The data for Dalles International covered the period January 1963 through December 1965 and for Kansas City-Mid-Continent the period July 1957 through December 1965. All data (Record, Special, Local, Check observations) were recorded on punched cards to the hour and minute whenever a change occurred in the ceiling, surface visibility, present weather, runway visual range or runway visibility during the time the ceiling was less than 200 feet and/or the surface visibility was less than 1/2 mile. The observation which ended a category of the above conditions was punched and if this observation was not a Record observation, the next Record observation was punched. The elements transcribed were: the time in hours and minutes, ceiling, surface visibility, tower visibility, present weather, temperature, dewpoint, surface wind, altimeter setting and remarks concerning runway visual range and runway visibility. visibility.

These data should prove to be a valuable source for additional studies where low visibilities are considered.

Runway visual range (RVR) is the operational weather criteria for airport landing systems. The limits of visibility conditions for categories of aircraft operations are presented in Table B. Only Cat. Il criteria are currently operational. Because RVR as such, is not available on a uniform basis for the station and period of record under study, visibilities and ceilings were used for delineating categories of weather minimums for landing and take-off operations. The determination of RVR would require:

- The light setting of the edge lights, the background lighting.
- the location with respect to runway,
- a special analyzer to integrate the transmissiometer readings etc.

This information has not often been recorded with the transmissiometer data.

\* Except Kansas City - Mid-Continent. Only Record (hourly) observations were taken during the period of record at this station; 16 hours per day (0700-2200) through November 1957 and 24 hours per day December 1957 through December 1965.

3

#### **EXPLANATION OF TABLES**

All the tables of climatological summaries excep. Table are based on the reported visibilities of less than 1/2 mile ad/or ceiling less than 200 feet.

The tables of climatological summaries in these publications include:

- (1) reported visibility and ceiling values versus time intervals of duration.
- (2) weather categories of aircraft landing systems based on their relationship to ceiling and visibility as presented in Table C, versus intervals of duration. This is Table X only.
- (3) percentage frequency of wind direction versus wind speed for each category of aircraft landing system using the relationship of Table C for Record observations only. These are presented for 13 stations only. This is Table XI only.\*
- (4) weather categories of landing systems based on their relationship to ceilings and visibility as presented in Table E, versus intervals of duration. These tables are also summarized on the basis of wind speed and temperature values.

#### • These stations are:

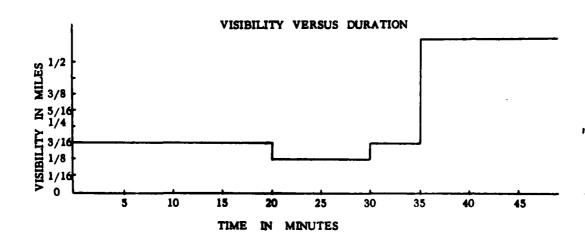
Los Angeles International, Oakiand International, Chicago O'Hare, San Francisco International, Greater Buffalo International, Washington National, Washington Dulles International, Atlanta, Newark, New York J. F. K., Philadelphia International, New York La Guardia, Cleveland Hopkins International

#### REPORTED VISIBILITY AND CEILING VALUES VERSUS INTERVALS OF DURATION

Nine summaries are presented. In Tables I - V the values represent the individual incidents of specified ceiling and visibility. Thus, in Table III 3/8 mile visibility with 100 ft. ceiling occurs with a specific frequency for each interval of duration.

In Tables VI to IX, the frequency of occurrence represents visibilities for specific conditions of ceilings at or below the listed visibility. They are cumulative incidents wherein the total time at or below a certain visibility value for the ceiling value specified is considered as one incident. Thus, if in Table VII there are 172 incidents of 3/8 mile in the interval of 1-15 minutes, it represents 172 times during the 10-year period that visibilities 3/8 mile or less with ceilings 100 feet.

Another example which combines the entries in the individual and the cumulative tables is as follows: If visibility is distributed as shown in the figure, for ceiling 100 feet, if for 20 minutes the visibility was 3/16 then went to 1/8 for 10 minutes, then went to 3/16 for 5 minutes and then to greater than 1/2 mile visibility in Table III there would be 2 counts for 3/16, one under 16-30 minutes and one under 1-15 minutes; and one count for 1/8 under 1-15 minutes; whereas, in the cumulative table for visibilities at or below a given visibility with 100-foot ceilings - Table VII in the 3/8, 5/16, 1/4 and 3/16 mile categories there would be one count under 31-45 minutes (actually 35 minutes) and one count in 1/8 mile category under 1-15 minutes (actually 10 minutes).



To estimate the total time of occurrence for a particular interval of time for the period of record one multiplies the average of time period by the frequency of occurrence of the specified conditions for this time period. Thus, if visibility of 3/8 mile with ceiling 100 feet (Table III) occurred 14 times between 16-30 minutes, the estimated total time would be 14 x 23 or 322 minutes.

# WEATHER CATEGORIES OF AIRCRAFT LANDING SYSTEMS VERSUS INTERVALS OF DURATION BASED ON TABLE D

A single table (Table X) based on Table C for the period of record is presented. Table C is based on the current practices relating RVR to meteorological visibilities as shown in Table D.

Table X is in three sections:

# Xa. Frequency of occurrence of the landing categories versus the indicated duration intervals:

In this summary Categories II, IIIa, IIIb, and IIIc are represented by the frequency of these conditions occurring during the specified intervals.

In Category II + III the frequency represents the visibilities and ceilings at or below Category II weather, i. e., below 200 feet and/or 1/2 mile for a continuous period of time.

In Category III, the number of occurrences represent the frequency the weather was in in Category IIIa and IIIb/c i.e., observation below 1/4 mile and equal to and above 1/4 mile when the ceiling is reported as zero for a continuous period of time.

Xb. Total time in each duration versus the duration intervals in hours and tenths of hours. The entries in this table are arrived by adding the times in minutes associated with the frequencies above. These totals are converted to hours and tenths. This table also contains the percentage of time for the 10-year period of observations of specified duration intervals, i. e., 1-90, 91-all, 1-all. This table is derived by dividing the total time under each category for the specified duration interval by the total number of hours. Thus the percentage value for Category II + III the 1-all group (last column, 4th value down) represents the frequency of occurrence for the ten-year period in percent of visibility and ceilings below 1/2 mile and/or 200 feet.

#### Xc. Average time in each duration versus the duration intervals.

This table is derived by dividing the total time in minutes of each item in Table Xb by the frequency of occurrence in Table Xa.

#### WIND DIRECTION VERSUS SPEED BY PERCENTAGE FREQUENCY (Table XI)

Table XI (for 13 stations) (unnumbered on summaries) show the percentage distribution of the different categories in accordance with Table D by wind direction to 16 points versus specified speed intervals. These categories, II, IIIa and IIIb/c, are divided into 2100-0500 and 0600-2000 hour groups making a total of six sub-tables.

Only the hourly (Record) observations when Category II or below conditions exist are used in these summaries. The percentages are determined by dividing the number of hourly observations which were recorded during the entire period of record for the indicated hour group. The percentage figures can be combined to obtain percentages for the quadrants of different speed intervals.

WEATHER CATEGORIES OF LANDING SYSTEMS VERSUS INTERVALS OF DURATION BASED ON TABLE E

Nine tables XII - XXI are presented for the ten-year period. These tables are presented in three sections:

#### a. Frequency of occurrences of landing categories versus duration intervals:

Categories II, IIIa, IIIb, and IIIc are represented by the total time for the specified hour group that these conditions occur during the indicated intervals.

In Categories II + III the frequency represents the visibilities and ceilings at or below Category II weather e. g., below 2400 RVR. In Category III the frequency represents the visibilities at or below Category III weather e. g., below 1200 RVR.

#### b. Total rime in each duration versus the duration intervals hours and tenths.

The entries in this table are derived by adding the time in minutes associated with the frequency above and convexting them to hours and tenths.

#### c, Average time ir each duration versus the duration intervals.

This table is derived by dividing the total time in minutes of each value in b by the corresponding frequency of occurrence in a.

In these tables, since the period of duration is the important element, each incident of weather is attributed to the hour group during which it began. Thus, if Category IIIa weather began in the 22-06 hour group and continued into the 07-13 hour group the total time is placed in the 22-06 group. It is probable, then, that the incidence of the various categories may be overestimated in the 22-06 group. The totals appearing in the all hour group, however, are correct.

The sum of Categories IIIa, IIIb, and IIIc in the all-hour groups and sometimes in the other hour groups are frequently greater than under Cat. III. This results from the addition of 5%, of observations of 3/16 mile or greater with ceiling 100 feet added to Cat. IIIa, whereas, this 5% is not included in the Cat. III totals at the bottom of each table.

The difference between Cat, III totals and the sum of Cat. IIIa, IIIb, and IIIc are subtracted from the Cat, II totals for the all-hour group and appears at the end of the Cat, II line with an asterisk. This value is a better estimate of the occurrence of Cat. II weather for the 10-year period.

#### EXPLANATION OF TABLE E

The relationship of RVR with light setting 5 for a 500' baseline to the meteorological report of visibility, based on the information in Circular N<sup>1</sup>/, is given in Table F. This was the basis for establishing the relationships in Table E. The use of the highest setting for the edge lights for approaches in low visibility is the current operational practice. Although the selection of some of the relationships in Table E have been somewhat arbitrary, it can be expected that the observers report of low visibilities and ceilings will be more inexact than the cut off point of these relationships.

1/ Manual of Surface Observations (WBAN). Circular N, Weather Bureau, Washington, D. C. NAVAIR 501D505, July 1968 (AD672-366)

#### **ACKNOWLEDGEMENTS**

This publication, one of a series, was prepared for the Federal Aviation Administration by the Environmental Science Services Administration's Environmental Data Service, Dr. W. C. Jacobs, Director. Technical supervision for the Environmental Data Service was by Mr. Julius F. Bosen and for the Federal Aviation Administration by Mr. Arthur Hilsenrod. The text was prepared and the tables compiled and prepared for printing at the National Weather Records Center, Asheville, North Carolina, Mr. William H. Haggard, Director. Principal participants in the project at NWRC included Messrs. Joseph M. Messrve, Oliver M. Davis, Ronald G. Baldwin, M. Larry Snelson, James D. Matthews, David H. Stancil, and Lloyd F. Stevens.

#### This is one of 41 volumes of Report RD-69-22. The volumes are as follows:

VOL.	CITY	AIRPORT
1.	Anchorage, Alaska	International
2.	Atlanta, Georgia	Atlanta
3.	Baltimore, Maryland	Friendship International
Ã.	Birmingham, Alabama	International
5.	Boston, Massachusetts	General E. L. Logan International
4. 5. 6.	Buffalo, New York	Greater Buffalo International
7.	Burbank, California	Hollywood-Burbank
8.	Chicago, Illinois	O'Hare International
9.	Cincinnati, Ohio	Greater Cincinnati
10.	Cleveland, Ohio	Cleveland-Hopkins International
11.	Columbus, Ohio	Port Columbus International
12,	Dallas, Texas	Love Field
13.	Dayton, Ohio	James M. Cox Municipal
14.	Denver, Colorado	Stapleton International
15.	Detroit, Michigan	Detroit Metropolitan-Wayne County
16.	Hartford, Connecticut	Bradley International (Windsor Locks)
17.	Houston, Texas	William P. Hobby
18.	Indianapolis, Indiana	Weir Cook
19.	Kansas City, Missouri	Mid-Continent International
20.	Los Angeles, California	International
21.	Louisville, Kentucky	Standiford Field
22,	Miami, Florida	International
23.	Milwaukee, Wisconsin	General Mitchell Field
24,	Minneapolis, Minnesota	Minneapolis-St. Paul International
25.	Nashville, Tennessee	Metropolitan
26.	Newark, New Jersey	Newark
27.	New Orleans, Louisians	International
28.	New York, New York	John F. Kennedy International
29.	New York, New York	La Guardia
30.	Oakland, California	Metropolitan Oakland International
31.	Philadelphia, Pennsylvania	International
32.	Pittsburgh, Pennsylvania	Greater Pittsburgh International
<b>33.</b>	Portland, Oregon	International
34.	Rochester, New York	Rochester-Monroe County
35.	St. Louis, Missouri	Lambert-St, Louis Municipal
36.	Salt Lake City, Utah	Municipal No. 1
<b>37.</b>	San Francisco, California	International
38.	Seattle, Washington	Seattle-Tacoma International
39.	Syracuse, New York	Clarence E. Hancock
40.	Washington, D. C.	Dulles International
41.	Washington, D. C.	National

TABLE A

#### LIMITS OF LANDING CATEGORIES

- CAT. II Operations down to minima below 200 feet decision height and 2400 RVR and to as low as 100 feet decision height and 1200 RVR.
- CAT. IIIA Below 100 feet decision height and 1200 RVR and to as low as 50 feet decision height and 700 RVR.
- CAT. IIIB Below 700 RVR to 150 RVR.
- CAT. IIIC No external visual reference.

#### TABLE B

- Current operational criteria Criteria not firm, used for planning purposes

#### CEILING AND VISIBILITY EQUIVALENTS FOR CATEGORIES OF AIRCRAFT LANDING OPERATIONS CURRENT PRACTICE CRITERIA for Table X and XI

Category II:

Visibility = 1/2 and ceiling = 100

Visibility = 3/8 and ceiling = 0

Visibility = 5/16 and ceiling  $\neq 0$ 

Visibility = 1/4 and ceiling  $\neq 0$ 

Category III-a:

Visibility = 1/4 and ceiling = 0

Visibility -3/16 and all ceilings

Visibility = 1/8 and all ceilings

Category III-b/c:

Visibility = 1/16 and all ceilings

Visibility =0 and all ceilings

Category III:

The sum of IIIa, IIIb, and IIIc

TABLE C

#### RVR VERSUS VISIBILITY (Current Practice)

 METEOROLOGICAL
 RVR EQUIVALENT

 Statute
 Feet

 Miles (feet)
 1200

 • 1/4 (1320 feet)
 1600

 • 1/2 (2640 feet)
 2400

#### TABLE D

 United States Standard for Terminal Instrument Procedures (TERPs), Federal Aviation Agency, September 1966.

# CRILING AND VISIBILITY EQUIVALENTS FOR CATEGORIES OF AIRCRAFT LANDING OPERATIONS Criteria for Tables XII-XXI

Category II Below 2400 ft, RVR to 1200 ft, RVR

**Equivalent Meteorological Observations** 

All observations with visibilities greater than 3/8 mile with ceiling 100 feet.

All observations of 3/8 mile with ceiling not equal to zero,

All observations of 5/16 mile with ceiling not equal to zero,

All observations of 1/4 mile with ceiling not equal to zero.

All observations of 3/16 mile with ceiling not equal to zero,

Category III
Category IIIa
Below 1200 ft. RVR to
700 ft. RVR

All observations of 1/8 mile.

All observations of 3/16 mile or greater with zero ceiling.

5% of observations of 3/16 mile or greater with ceiling 100,

Category IIIb
Below 700 ft. RVR to
150 ft. RVR

All observations of 1/16 mile.

50% of all observations of zero miles.

Category IIIc Below 150 ft. RVR

50% of observations of zero miles,

TABLE E

#### RVR VERSUS METEOROLOGICAL VISIBILITY

#### Circular N

Reported Meteorological Visibilities	RVR (500 ft. Setting	Catégory		
Miles (feet)	Day	Night		
0 (less than 330 feet)	•	•	(IIIc and IIIb)	
1/16 (330 feet-650 feet)	•	•	(пр)	
1/8 (660 feet-980 feet)	1000-1400	•	(IIIb and IIIa)	
3/16 (990 feet-1310 feet)	1400-1800	1200-1800	(Cat. II)	
1/4 (1320 feet-1640 feet)	1800-2200	1800-2200	(Cat. II)	

<sup>•</sup> No determination of RVR with respect to meteorological visibility.

TABLE F

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TABLE X						PIT	TSOURCH,	GREATER	PETTSON	MON INTE	RMATION	AL.					
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PREQUENCY CATEGORY 11 111A 111B/C 11 • 111			ICE 31-45 46 32 30 30 30	44-46 94 17 6 43	61-00 90 22 17 93	91-120 17 12 9	7]5 121-100 10 10 22 37	IM MI 101-240 5 6 13 10 23	NUTES 241-260 7 6 31	361-460 1 1 0	461· 2 2 10	1-00 407 220 70 295 199	91-ALL 42 30 40 159	1-ALL 649 267 199 914			
TOTAL TIM CATEGORY II IIIA IIIB/C	E IN (	ACH D	PATIO	HOUR		71-120 29-2	720	E IN NI	NUTES	361-480 6.8 7.5 98.7	421. 31.0	1-90 257-3 101-1 50-3	91-ALL 100.6 130.3 219.3	1-ALL 357.9 239.4 200.5		PERCENTA 91-ALL ,11 ,16 ,25	46 1-ALL -01 -27 -31
AVERAGE T	11.5 1.0 11.5 11.5 11.5		31.0 20.1 DURAT:	37.0 13.9 ION MI	67.6 27.0 WTES	MID TEN	TIP	126-4 79-3 E IN HI 181-240		42.4	183.9	105.7	425.0	300.7	,00	.70	:33
1118/C 1118/C 111 + 111	1.4 1.8 1.5 1.5 1.5	23.4 23.5 24.1 23.0 23.7	30.0 30.0 30.4 30.1 37,7	53.1 94.0 51.0 52.0 95.4	76.0 76.0 77.2 75.0 77.1	103.1	147.1 151.0 193.1 150.9 153.7	214.0 194.7 210.0 210.7	209.4 206.0 203.0 207.3	490.0 490.0 402.4 422.3	928.5 509.0 609.6 671.8	29.4 24.5 30.2 31.4 31.3	143.6 218.3 219.3 257.0 246.7	33.1 53.0 116.3 101.2 116.1			

- 14

## PITTSBURGH, GREATER PITTSBURGH INTERNATIONAL

NO WIND TABLES FOR THIS STATION

					P2 T1	SEUEGH.	. GREATES	. 9177581	MGH IMTI	M*L					
PABLE XII							(25971	_			JAMA	Y 1956	- DECEME	ER 1965	
PREQUENCY CATEGORY				AA-AC	A1-90	91-120	T11	18 IN MII	WT85	341-460	481.	1-90	91-ALL	1-ALL	
II	*2 34	43	22	1	16	7	1	3	1	201-400	70.0	198		206	
1116	1	•	;	1	1		ì			1		24	1	27	
11 • 111	19	19	14	16	13	i	;	•		t	1	111 30	19	130	
GTAL TIR	E IN 1		URATIO	HOUR!	5 AND 1	TENTHS		9 ju nii							
ATEGORY I	1-15	16-30 19.3	31-45	15.0	41-90	91-120 12.3	121-180	181-840	241-360	361-480	481+	1-90	91-ALL 87.1	1-ALL	
11A 118	1.3	3.0	5.0	1.6	3.5	1.5	1.3					24.4	0.1	28.7 19.0	
iic 1 + 111	7.0	7.1	1.4	13:	1.3	10.2	12.2	14.2	4.2	<b>†</b> :1	24.2	\$3.7	76.4	10.2	
11	2.8	3.4	3.7	2.7	2.2	3.5	10.1			7.3		14.0	10.0	35.4	
VERAGE T	IME IN	EACH	DURATI	ON HEI	HUTES A	IND TENT	THS 121-180	iệ jih Min	WTES			1-90	•• •••		
ATEGORY I I 14	9.5	22.7 23.1	36.1	52.1	75.7	109.0	130.3	273.3	250.0	301-46D	481+	25.8	91-ALL 148.4 121.8	1-ALL 34.7 25.3	
1 1 6 1 1 C	1.0	22.0	90.3	93.0	75.3 75.5	••••	171.0			345.0		31.3	171.0	42.2	
i - 111 11		22.3	37.9	52.2	74.1	102.3	151.0	213.0	244.0	442.0	1430.0	29.0	241.1	47.5	
						- 2100		DESERVAT		-				*****	
re <b>d</b> newc A							111	6 th at	MITES						
ATEGORY	38	20	14	•	13	2	121-180	101-240	1	361-480	461+	)-90 111	91-ALL	1-ALL 116	
10 10	13	•	•	7	1	1	i					35 ?	į	*	
. 111	** 10	13	12	3	11	3	•	2	1	1 3	:	64 30	19 10	103	
II Btal tim	• • •		-	•	-	-		1	•	•	•	30	10	40	
STAL 11M A <b>tego</b> ry							121-160	# IN MIN	NTES 241-340	361-480	481+	1-90	91-ALL	1-ALL	
IA	1:1	3.1	117	3.7	10.5	3.7	2:3		9.4 10.2		30.9	47.1	13.5	6.00	
110	:2	:3	7:5	1.0	1.3		2.2		9.7	22:3	11.6	1:3	23.7	10.2	
i • 111 11	1.3	2.9	7.6	3.0	14.2	5,1	9,7	3.3	19.4	22.3	94.1 94.3	35.0 16.3	112.4	147.8	
VERAGE T		I ::ACH	DURATI		NUTES A	ND TEN	THS								
TEGORY	1-15	14-30	31-45	46-60	41-90	91-120	121-180 130.5	18 1M MIN 181-240	241-360	341-480	401+	1-90	91-ALL	1-ALL	
1 1	10.2	24.0	37.6 40.5	56.3 55.1 57.0	76.1 77.0 88.0	112.0	154.0		324.0 306.0		926,0	29.9 33.4	161.8 454.2	81.4 69.5 74.3	
iič 1 • 111	9.3 3.7 8.2	23.0	31.0	57.0	84.0 77.5	105.7	144.0	186.0	340.0	398.0 445.0	683.0 811.0	25.0	131.0 473.7 354.1	147.5	
í1 * * * * * * * * * * * * * * * * * * *	7.9	21.1	42.2	57.3	77.0			199.0	290.5	396.0	614.6	\$2.4	\$01.4	149.6	
REQUENCY	0# 00	CURRE	MC E		3500	- 0600		PAYAB REO	-	15>					
ATEGORY	1-15	10-30	31-45	48-60	61-90	91-120	121-100	42 IN MIR 181-240	NTES 241-340	361-480	481+	1-90	91-ALL	1-ALL	
114	153	70 23	33 13	30	13	19	13	•		1		112	35 26	130	
116 116 1 • 111	21	15 5 39	12	3	15 7 29	1	13	30	;	1 2 7	11	72 24	121 10	99 44 201	
iı	23	14	19	• •	17	·i	27	ĩĩ	16	Ť	11	160 00	*77	157	
OTAL TIM							714	e in nin	29111						
ATESORY I	1-15	16-30 27.4 9.9	31-45	26.9	41-90 34.3	*1-120 25.7 12.7	121-100 32.1 17.0	21.0	241-360	6.0	481+	120.9	91-ALL 85.4	1-ALL 216.5	
1 1 A 1 1 B	3.	•.•	7.7	1.2	17.3	8,3	33.0	10.4	23.4 10.1 15.1	14.3		48.1	79.6 78.9 66.7	120.1	
116	7.7	15.1	13.4	22.1	34.1	23.3	23.1 71.2 67.2	14.0	127.9	47.7	109.7	17:0	44.7 492.6 293.7	307.0	
11	4.0	3.5	12.0	4.3	22.6	14.3		37,8	77.6	48.7	18.0	50.1	243.7	134.0	
venase T							7HS 121-180	e th AIR	NTES	241-486	4810	1-90	Gl-Att	1-411	
ATEGORY I IIA		23.5		93.7 52.1	74.2	102.9	148.0	\$00.5 196.5	200.0	400.0	-414	27.4 27.4	91-ALL 146.7 184.1	<b>9.1</b>	
!! <b>!</b>	10.8	25.4	38.3	54.7 54.7	76.3	100.0	158.1	\$16.0 \$00.6 \$18.0	302.0 362.2 293.0	412.0		77.4	199.1	115.3	
:: :::	10.7	23.3	38.4	53.0	76.0	105.6	152.6	\$12.0 \$94.1	295.6	409.7	376.3 541.0	36.4 37.7	243.9	125.8	
••					ALL			DESERVAT							
REQUENCY	DF D0	CURRE	MC E			<b>41</b> -446	121-100					1,.44		1-611	
ATEGORY	1-15 275	133	••	44-40 54 18	30	91-120	121-100	181-240	241-300	361-480	461+	1-96 309 203	91-ALL 95 23	1-ALL 644 290	
IIA IIB IIC	"	21	17	12	17 21	i	13		į		1	100	*	199	
;;; ;;;	138	71 29	50	14		24 10	97 91	36 18	31 20	11	16	383 144	150	914 848	
			UB 4 7 7 64	- 100.00	8 AMB 1	rentut				-	•				
ATBOOKY		14-96	31-46	40-60	41-90	91-120	121-100	101-140 101-140	NTES 241-360	361-480	401+	1-90	91-ALL	1-ALL 307.3	
11A	10.2	31.7 17.7	17.2	16.3	73.5	41.7	19.4	16.4		14.1	20.9	201.2	130.3	307.3 210.4	30
119	3.0	10.0	10.7	10.8	26.9	::	37.0	10.0	35.6 19.9 19.9	13.3	ıll::	183.7	91-ALL 130.3 120.8 97.6 04.7	210.4 104.4 100.4	
i • 111 11	21.0 0.1	27.3	19.2	12.9	67.0 30.0	17.8	77.3	126.4	97.0	62.6	72.4	183.7	306.1	141.5	
<b>VERAGE</b> 1	1mg 11	BACH	DURATE	OH 111	NUTES A	110 TEN1	09.0 77.9 78 121-100 146.6 149.6 191.9 190.9	<b></b>							
TEGGRY	1-19	14-30	31-45	44-00	41-90	91-120	121-100	101-040	241-244	361-400	461+	1-00	91-ALL 146.5 229.4	1-444 37.0	
I I IA		13.4	30.2	54.4	78.4	100.4	143.4	194.6	200.0	427.0	724.0	1-00 20-6 26-3 25-3	229.4	23.0	
	9.3	24.3	37.1	33.4 94.7 93.4	75.6	100.0	193.0	\$10.0 \$00.0 \$10.7 \$63.6	300.5	400.0	483.0 489.4	-	100 : 1 121 : 1 127 : 7	70.6 118.4 101.8	
jj. 111	<b>;;</b> ;	#:		33.1	76.2	194.1	149.6	265.6	299.0	422.3	499.4 781 9	31.4	\$47.7	101.2	

- 30 -

TABLE HILL - TEMPORATURE < 30 CORRECT (F)			
FREQUENCY OF OCCURRENCE	TANNAULY	1996 - <b>ROCOMO</b>	ga 1965
CATHORNY 1-15 10-50 51-05 40-60 61-00 91-150 121-150 101-100 261-000 561-400	461+	1-90 91-ALL 93 5	1-ALL 90 19
			93 15
TOYAL TIME IN BACH BURATION HOURS AND TRITIS			
CATEGORY 1-15 10-30 31-45 40-60 41-40 91-120 121-100 101-400 201-400 201-100 101-400 2	483+	1-00 01-ALL 10.4 12.1 5.7 3.2	1-ALL 91.4 9.7 3.6
11 - 111 4-1 2-3 2-4 5-1 2-5 5-6 9-7 4-6 111 1-6 -3 -5 -6 2-4		19:3	13.7
AVERAGE TIME IN EACH BURATION MINUTES AND TENTHS TIME IN MINUTES			
AVERAGE TIME IN EACH QUARTION MINUTES AND TENTHS  CATEGORY  1-19 10-30 31-45 40-00 61-90 91-120 121-100 101-300 241-300 301-400  11 8-0 21-7 37-3 31-2 81-0 100-0 105-0 240-0  1110 7-0 75-0 75-0  1110 7-0 75-0 135-0	491+	1-00 VI-ALL 81.0 104.6 17.0 92.3 80.3 108.0 81.3 107.7	1-41. 22.5 17.0 96.4 38.2
11 + 111 9.1 20.0 34.3 51.2 75.5 107.0 145.0 246.0 111 8.9 17.0 91.0 48.0			#:i
1400 - 2100 (20224 GBSBRYATECH HOURS)			
FREQUENCY OF DECURRENCE TIME IN MINUTES			
CATHORNY 1-15 10-30 51-45 40-00 61-90 91-120 121-100 181-200 241-500 561-600 1 11 20 6 7 1 3 1 1110 4 2 1 2 1110 1 1110 1 1	461+	1-90 91-46	1-411 40 10
1116 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		* 1	37
TOTAL TIME IN SACH BURATION HOURS AND TENTHS		•	-
CATEGORY 1-15 10-30 31-05 00-00 01-00 01-120 121-100 101-200 201-300 501-000 11 2.5 2.0 0.2 1.0 0.0 2.2 2.2 5.3 1118 .2 5.5	401+	1-00 91-ALL 10.5 2.2 9.2 9.3	1-ALL 10.0 0.9
HIC .3 .3 .3 .3 .1 .5 .1 .7 3.2 6.8 HIL .6 .6 .6 .9 5.5 1.7 3.2 5.5		13.7 11.9	1.1 25.4 6.4
AVERAGE TIME IN EACH BURATION MINUTES AND TENTHS TIME IN MINUTES CLTECORY 1-15 18-30 31-45 46-40 41-90 31-120 121-120 121-240 241-240 241-240		1-00 71-444	1-ALL
C.TRICAY 1-19 16-36 91-68 40-60 41-90 91-120 121-120 151-240 261-360 561-480 11 7.9 21.1 36.0 60.0 80.7 136.0 151-240 261-360 561-480 1114 10.0 21.0 40.0 57.0 1128 14.0 21.1 13.0 18.0 31.0	401+	1-00 01-4LL 22.4 194.0 21.4 315.0 14.0 21.3	29.2 90.0 14.0 21.3
11 + 111 8.2 21.8 35.8 62.8 104.0 109.0 409.0 111 12.5 19.0 45.0 54.0 215.0		24.2 292.7 25.4 315.0	41.1 99.0
PREQUENCY OF OCCURRENCE			
TIME IN MINUTES CATEGORY 1-15 10-30 31-45 40-60 61-90 91-120 121-100 181-240 241-360 361-480	481+	1-90 91-ALL	1-ALL
11 20 10 5 6 5 2 1 121A 6 8 1 3 2 2 1 121B 1 2 3		14 3	17
		4 4	; ?
		• •	
TOTAL TIME IN EACH BURLTION MOURS AND TENTHS	441.		h
TOTAL TIME IN EACH DWEATION HOURS AND TRATHS  CATGORY 1-15 16-90 51-05 40-40 01-00 91-120 121-100 101-000 241-300 361-400  II 3-4 2-0 3-1 5-3 4-1 3-0 121-100 101-000 241-300 361-400	461+	1-90 91-444	1-ALL 27.4
TOTAL TIME IN SACH BURNTION HOURS AND TENTHS  CATEGORY 1-19 10-90 91-05 00-00 01-90 91-120 121-100 101-900 201-900 301-000 II 3-0 3-0 3-1 5-3 0-1 5-0 2-7 2-7 3-0 9-5 1110 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 II-1 II-	*61*	1-00 01-ALL 21.5 5.0 7.6 0.5	27.4 13.3 7.4 13.4
TOTAL TIME IN GACH BURNING MOUNTS AND TENTING  CATEGORY 1-15 16-50 51-65 40-60 61-90 91-120 121-100 101-240 241-360 361-400 II 3-6 3-6 3-1 3-3 0-1 3-6 2-7 2-6 3-5 3-6 III 1-2 -0 -7 2-7 2-6 3-5 3-6 III 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1	461+	1-00 01-ALL 21.5 9.9 7.4 0.5	27.4 19.9 7.4
TOTAL TIME IN EACH SWELTIGH MOURS AND TENTIS  CATEGORY 1-15 16-50 51-65 40-60 01-00 91-120 121-100 101-200 241-300 361-400 II 3-6 3-6 3-1 5-3 0-1 5-6 2-5 2-5 IIIA 1-3 -0 -7 2-7 2-6 5-5 3-9 IIIB -1 1-1 -5 IIII 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1		1-90 91-441 21.5 5.9 7.4 0.5 5.2 3.2 12.5 20.0 45.3 5.8 29.8	27.4 13.3 7.4 13.4 66.0 33.6
TOTAL TIME IN EACH BURLYTON HOURS AND TENTIS  CATEGORY 1-15 16-50 51-05 40-60 01-00 91-120 121-100 101-200 241-300 361-400 II 3-4 3-5 3.1 5-3 0.1 5-5 2.1 5-5 IIIA 1-3 -9 -7 2-7 2-6 5-5 IIIB -1 1.1 -5 IIII 1-6 3-6 2-6 4-5 6-6 6-6 7-1 10-0 4-5 14-3 III 1-2 -0 1-3 1-0 2-5 2-6 4-6 10-2 5-1 0-0  AVERAGE TIME IN SACH DUMATION NUMBERS AND TENTIS  CATEGORY 1-15 10-30 31-45 40-00 61-00 91-120 121-100 101-200 241-500 561-400 II-10 11 10-1 21-3 37-2 52-7 73-4 10-13 121-100 101-200 241-500 561-400	461+	1-00 01-041 21.5 5.0 7.4 0.5 5.2 12.5 20.6 45.3 5.6 20.6 1-00 01-041 20.0 117.7	27.4 19.3 7.4 19.4 66.0 99.6
TOTAL TIME IN GACH BURNTION HOURS AND TENTING  CATEGORY 1-15 16-DO 31-05 00-06 01-00 01-120 121-100 101-040 241-360 361-040  II		1-00 91-4L1 21.5 5.9 7.4 6.5 5.2 12.5 20.0 45.3 5.6 27.8 1-00 91-4L1 20.0 117.7 91.0 190.7	27.4 18.3 7.4 13.4 66.0 99.6 1-64.1 28.3 47.1 74.3 119.3
TOTAL TIME IN EACH DURATION MOURS AND TENTING  CATEGORY 1-15 16-DO 51-OS 40-DO 01-DO 01-120 121-180 101-040 241-300 301-030  II		1-00 01-041 21.5 5.0 7.4 0.5 5.2 12.5 20.6 45.3 5.6 20.6 1-00 01-041 20.0 117.7	27.4 19.9 7.4 19.4 66.0 99.6 1-8LL 29.9 47.1 74.9
TOTAL TIME IN EACH DUBLITION MOURS AND TENTING  CATEGORY 1-15 16-30 31-65 40-60 61-00 91-120 121-100 161-040 241-300 361-400 11		1-90 91-641 21-5 5.9 7.4 6.5 5.2 12.5 20.6 45.3 5.6 27.8 1-90 91-641 20.0 17.7 21.0 120.7 20.0 120.7 20.0 120.7	27.0 19.3 7.0 13.0 60.0 99.0 1-64.1 23.5 47.1 70.3 119.3
TOTAL TIME IN EACH DUBLITION MOURS AND TENTING  CATEGORY 1-15 16-30 31-65 40-60 61-00 91-120 121-120 151-240 241-360 361-400 11		1-00 01-411 21-5 5.5 7-4 6.5 5.2 11.5 20-6 40.3 3-6 27.0 1-00 01-411 20-0 117-7 21.0 120-7 21.0 120-7 40.0 120-0 40.0 120-0 40.0 120-0 40.0 120-0 40.0 120-0 40.0 120-0	27.0 13.3 7.4 13.0 00.0 93.6 1-04.1 20.3 47.1 70.3 17.3 17.3 17.2
TOTAL TIME IN EACH BURSTION MOURS AND TENTING  CATEGORY 1-15 16-30 31-65 40-60 01-00 01-120 121-100 101-040 241-360 361-400  11	461+	1-00 01-011 21.5 0.5 7.0 0.5 5.1 11.5 20.6 01.5 10.6 17.6 1-00 01-011 20.6 117.7 10.0 117.7 10.0 117.7 10.0 100.0 00.5 220.6 1.00 01-011 1.00 01-011	27.0 13.3 7.4 13.0 60.0 99.0 1-64L 23.5 97.1 14.3 14.3 14.2 12.3 14.2 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14.3
TOTAL TIME IN EACH BURLYTON HOURS AND TENTIS  CATEGORY 1-15 16-90 31-05 40-40 01-00 91-120 121-100 101-240 241-340 361-400 III 3-4 3-5 3.1 5-3 0.1 5-5 5.5 3.0 III 3-4 3-6 3.1 5-3 0.1 5-5 5.5 3.0 IIII 1-3 -7 7-7 2-5 5.5 5.5 3.0 IIII 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1	461+	1-00 01-011 21.5 0.0 7.4 0.5 5.2 11.5 20.6 17.0 1-00 01-011 1-00 01-011 1-00 01-011 1-00 01-011 1-00 01-011 1-00 01-011 1-00 01-011	27.0 13.3 7.4 13.0 60.0 99.0 1-64L 23.5 97.1 14.3 14.3 14.2 12.3 14.2 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14.3
TOTAL TIME IN EACH DUBLITION MOURS AND TENTING  CATEGORY 1-15 16-30 31-65 40-60 01-00 01-120 121-100 101-040 241-300 301-400 11	461+	1-00 01-011 21.5 0.0 7.4 0.5 5.2 11.5 20.6 17.0 10.0 117.7 21.6 170.7 21.6 170.7 21.7 17	27.0 13.3 7.6 13.0 60.0 99.0 99.0 1-44.1 33.3 07.1 70.3 119.2 119.2 119.2
TOTAL TIME IN GACH BURNTION MOURS AND TENTING  CATEGORY 1-15 16-50 51-65 40-60 61-00 91-120 121-100 161-040 241-360 361-400  11	461.	1-00 01-041 21.5 0.0 7.4 0.5 5.2 11.5 5.3 11.5 5.6 17.6 1.00 01-041 1.00 01-	27.0 13.3 7.6 13.6 99.6 99.6 99.6 1-64.1 70.3 119.3 119.3 119.3 129.6
TOTAL TIME IN EACH BURLYTON HOURS AND TENTIS  CATEGORY 1-15 16-50 31-65 46-60 01-00 01-120 121-100 101-240 241-360 361-400 III 3-4 3-5 3.1 3-3 0.1 3-5 3.1 3-5 3.9 IIII 1-3 -4 3-5 3.1 3-3 0.1 3-5 3.9 IIII 1-3 -4 3-5 3.1 3-3 1-3 3-3 3.9 IIII 1-4 3-6 3-7 2.7 3-6 3-7 3-6 3-6 3-6 3-7 3-6 IIII 1-4 3-6 3-7 3-6 3-6 3-6 3-6 3-6 3-6 3-6 3-6 3-6 3-6	461+	1-00 01-011 21-5 5.9 71-0 0.9 5.2 12.5 20-0 40.3 20-0 117-7 21-0 117-7 21-0 110-7 21-0 1	27.0 13.3 7.4 13.0 80.0 99.0 99.0 99.0 1-64.1 30.3 07.1 70.0 170.0
TOTAL TIME IN EACH BURLYTON HOURS AND TENTIS  CATEGORY 1-15 16-50 31-65 46-60 01-00 01-120 121-100 101-240 241-360 361-400 III 3-4 3-5 3.1 3-3 0.1 3-5 3.1 3-5 3.9 IIII 1-3 -4 3-5 3.1 3-3 0.1 3-5 3.9 IIII 1-3 -4 3-5 3.1 3-3 1-3 3-3 3.9 IIII 1-4 3-6 3-7 2.7 3-6 3-7 3-6 3-6 3-6 3-7 3-6 IIII 1-4 3-6 3-7 3-6 3-6 3-6 3-6 3-6 3-6 3-6 3-6 3-6 3-6	461.	1-00 01-011 21.5 0.0 5.1 11.5 5.0 17.0 1.0 01-011 1-00 01-011	27.0 13.3 7.6 13.0 93.0 93.0 93.0 93.0 1-44.1 13.3 97.1 70.3 170.3 119.3
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IIII .7 TOTAL TIME IN BACH BURATION HOURS AND TONTHS AVERAGE TIME IN EACH GURATION MINUTES AND TENTHS CATGORAY 1-19 10-30 31-45 40-40 61-90 91-120 121-130 161-040 301-80 1114 21.0
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111 + 111	10.1	25.4	30.8	92.0	82.5 74.5 87.0	99.5 104.5	140.0	204.0	244.0	105.0	1450.0	24.3 29.1	201.2	72.9 66.3	
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1118	7.0	10.1	•.•	6.Z	10.1	4.7	20.3	14.4	10.1			40.0	94.4	100.4	
1116	4:1 3:7	12.7	2.0 14.7 11.5	18.6	20.4	3.3 23.2 14.3	67.3 64.2	72.7	124.2	11.5	10,0	15.4 15.4 11.6 45.8	430.7	107.6 70.0 510.5 270.4	
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111A 1110 1110 1110 11 • 111	11.0	23.9 23.9 23.9 25.4 23.3	37.8 39.7 39.7 30.4	92.7 94.7 94.7 93.1	70.9 74.4 74.9 76.7	100.8 100.3 99.0 107.1	151.3	197.4 215.3 306.7 211.6	70:1	400.3	207.2	30.7 30.3 31.3 37.2	177.1	73.0	
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111A 1110 1110 1110 11 • 111	11.0	23.9 23.9 23.9 25.4 23.3	37.8 39.7 39.7 30.4	92.7 94.7 94.7 93.1	70.9 74.4 74.9 76.7	100.8 100.3 99.0 107.1	191.3 192.5 190.7 140.2	197.4 215.3 304.7 211.4 202.4	202.0 202.2 200.1 200.1 100 HQM	400.3 407.3 407.3	907.0 901.0	30.7 30.4 31.4 97.2 30.6	177.1 196.8 247.2 214.8	73.0 73.7 114.1 130.7 122.6	
FREQUENCY CATGORRY	10.0 11.0 11.4 11.5 10.1	29.9 29.9 29.9 25.4 23.3 24.6	37.0 39.7 39.7 30.4 30.3	92.7 94.7 94.7 93.1 94.1	70.3 74.4 74.9 76.7 79.9	100.8 100.3 00.0 107.1 107.0	151.3 152.5 150.7 140.2 (87672 (	197.4 215.3 304.7 211.4 200.4	202.0 202.2 200.1 200.1 100 HQM	400.3 407.3 407.3	907.0 901.0	30.7 30.4 31.4 97.2 30.6	177.1 196.8 247.2 214.8	73.0 73.7 114.1 130.7 122.6	
PREQUENCY CATGORY III	10.0 11.0 11.4 11.5 10.1 0F 0C	23.9 23.9 25.4 23.3 24.0 CURREN 10-30	37.0 39.7 39.7 30.4 30.3 88 31-43 94	92.7 94.7 94.7 93.1 94.1	70.3 74.4 74.9 76.7 79.9 ALL 61-90 47	100.8 100.3 90.0 107.1 107.0	191.9 192.5 190.7 140.2 (87072 ( 71% 121-100	197.4 215.3 200.7 211.6 200.6 MSSRVAT E IN NIN 181-200	200.1 200.1 200.1 200.1 201 HQMI VTPS 241-260	400.3 407.3 407.3 181		30.7 30.4 31.4 97.2 30.6	177.1 196.8 247.2 214.8	73.0 73.7 114.1 130.7 122.6	
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PREQUENCY CATGORY III	10.0 11.0 11.4 11.5 10.1 0F QC 1-15 204	23.9 23.9 25.4 23.3 24.0 CURREN 10-30	37.0 39.7 39.7 30.4 30.3 KE 91-45 94	92.7 94.7 94.7 93.1 94.1	70.3 74.4 74.9 76.7 79.9 ALL 61-90 47	100.8 100.3 99.0 107.1 107.0	191.9 192.5 190.7 140.2 (87072 ( 71% 121-100	197.4 215.5 306.7 211.6 200.0 EµSERVAT 8 IN NIN 181-240	702.0 702.2 200.1 200.1 18M H3MI VTPS 241-360 2	401.5 401.5 407.3 407.3 51	481+	30.7 30.3 31.3 37.2	177.1	73.0	
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PREQUENCY CATOMRY 1114 1115 1116 1116 1116 1117 1117 1117 1117	10.0 11.0 11.0 11.3 10.1 7 OF OC 20 20 27 27 27 27 27 27 27 27 27 27 27 27 27	23.0 23.9 25.4 23.3 24.9 20.9 20.9 20.9 20.9 27 27	99.7 99.7 90.3 90.3 KE 91-05 90 20 10 0 93 80 MATISM	92.7 54.7 54.7 59.1 54.1 46-40 43 19 12 46-31 12	79.9 74.0 74.7 79.7 79.9 ALL 61-90 41 15 10 80	100.5 100.3 00.0 107.1 107.0 71-120 9 10 0 4 2 10	191.9 192.5 190.7 140.2 (87072 ( 121-140 17 9 10 9	197.4 215.3 200.7 211.6 202.6 MAGRITATI F IN HIN 141-246 5 6	702.0 200.1 200.1 200.1 18M H3M VTPS 241-300 2 3 3	201-400 201-400 201-400 1 2 1 2	401+ 2 10	30.7 30.4 31.4 97.2 30.6	1177.1 196.0 247.2 216.0 91-4LL 46 91 22 120 80	130.7 12.6 130.7 122.6 1-444 202 207 130 210 210	311,20
FREQUENCY CATGORY IIIA IIIA IIIA IIIA IIIA IIIA IIIA II	10.0 11.0 11.5 10.1 7 OF GC 1-15 204 27 7 9 04 27 7 9 04 1-19 10.0 12.0 12.0 14.0 9.0	29.0 29.0 29.0 29.0 29.0 29.0 20.0 10-20 29 27 20 27 20 20 20 20 20 20 20 20 20 20 20 20 20	90.7 90.7 90.3 90.3 90.3 90.3 90.1 10.0 90.1 10.0 90.1 10.0 90.1 10.0 90.1 10.0 90.1 10.0 90.1	52.7 54.7 54.7 54.1 54.1 54.1 40.0 43 12 40.0 12.0 12.0 12.0 10.0 10.0 20.0 10.0 1	77.5 74.7 74.7 76.7 79.7 ALL 61-90 80 80 1400 T 61-90 90.3 10.3 90.3 10.3 90.3	100.5 100.5 100.5 107.1 107.0 71-120 10 0 0077HS 91-120 91-120 10.2 0.7 10.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	191.9 192.5 190.7 190.7 190.7 190.7 190.7 121-100 101.7 101.	107.4 215.9 306.7 211.0 202.0 RESERVAT 8 IN MINI 101-040 9 IN MINI	702.0 702.2 200.1 200.1 200.1 200.1 200.2 201.2 20.2 20	400.3 419.3 419.3 407.3 181 201-400 1 2 2 0 0 0 0 0 14.3 4.3 4.3 5.3 6.0 9.0	401. 2 10 6 401. 20.0	1-00 10-0 10-0 10-0 10-0 10-0 10-0 10-0	01-441 01-02 01-441 01-	20.0 71.0 71.0 110.1 110.7 122.0 100.2 200 200 210 200.3 100.3 100.3 100.3 100.0 100.0	N1.de
PREQUENCY CATGORY III THE PREQUENCY CATGORY III THE THE THE THE THE THE THE THE THE THE	10.0 11.0 11.5 10.1 0	29.0 29.0 29.0 29.0 29.0 29.0 20.0 10-20 29 27 20 27 20 20 20 20 20 20 20 20 20 20 20 20 20	90.7 90.7 90.3 90.3 90.3 90.3 90.1 10.0 90.1 10.0 90.1 10.0 90.1 10.0 90.1 10.0 90.1 10.0 90.1	52.7 54.7 54.7 54.1 54.1 54.1 40.0 43 12 40.0 12.0 12.0 12.0 10.0 10.0 20.0 10.0 1	77.5 74.7 74.7 76.7 79.7 ALL 61-90 80 80 1400 T 61-90 90.3 10.3 90.3 10.3 90.3	100.5 100.5 100.5 107.1 107.0 71-120 10 0 0077HS 91-120 91-120 10.2 0.7 10.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	191.9 192.5 190.7 190.7 190.7 190.7 190.7 121-100 101.7 101.	107.4 215.9 306.7 211.0 202.0 RESERVAT 8 IN MINI 101-040 9 IN MINI	702.0 702.2 200.1 200.1 200.1 200.1 200.2 201.2 20.2 20	400.3 419.3 419.3 407.3 181 201-400 1 2 2 0 0 0 0 0 14.3 4.3 4.3 5.3 6.0 9.0	401. 2 10 6 401. 20.0	1-00 10-0 10-0 10-0 10-0 10-0 10-0 10-0	01-441 01-02 01-441 01-	20.0 71.0 71.0 110.1 110.7 122.0 100.2 200 200 210 200.3 100.3 100.3 100.3 100.0 100.0	111. <b>20</b>
FREQUENCY CATOGRAY III FREQUENCY CATOGRAY III III FREQUENCY CATOGRAY III CATOGRAY III A CATOGRAY III A CATOGRAY III A CATOGRAY III A CATOGRAY III A CATOGRAY III A CATOGRAY III A CATOGRAY III A CATOGRAY III III A CATOGRAY	10.0 11.0 11.5 10.1 0	29.0 29.0 29.0 29.0 29.0 29.0 20.0 10-20 29 27 20 27 20 20 20 20 20 20 20 20 20 20 20 20 20	90.7 90.7 90.3 90.3 90.3 90.3 90.1 10.0 90.1 10.0 90.1 10.0 90.1 10.0 90.1 10.0 90.1 10.0 90.1	52.7 54.7 54.7 54.1 54.1 54.1 40.0 43 12 40.0 12.0 12.0 12.0 10.0 10.0 20.0 10.0 1	77.5 74.7 74.7 76.7 79.7 ALL 61-90 80 80 1400 T 61-90 90.3 10.3 90.3 10.3 90.3	100.5 100.5 100.5 107.1 107.0 71-120 10 0 0077HS 91-120 91-120 10.2 0.7 10.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	191.9 192.5 190.7 190.7 190.7 190.7 190.7 121-100 101.7 101.	107.4 215.9 306.7 211.0 202.0 RESERVAT 8 IN MINI 101-040 9 IN MINI	702.0 702.2 200.1 200.1 200.1 200.1 200.2 201.2 20.2 20	400.3 419.3 419.3 407.3 181 201-400 1 2 2 0 0 0 0 0 14.3 4.3 4.3 5.3 6.0 9.0	461. 20.0 461. 20.0 11.0	1-00 10-0 10-0 10-0 10-0 10-0 10-0 10-0	01-441 01-02 01-441 01-	20.0 71.0 71.0 110.1 110.7 122.0 100.2 200 200 210 200.3 100.3 100.3 100.3 100.0 100.0	3 <u>1</u> 1 <b>.30</b>
FREQUENCY CATOGRAY III FREQUENCY CATOGRAY III III FREQUENCY CATOGRAY III CATOGRAY III A CATOGRAY III A CATOGRAY III A CATOGRAY III A CATOGRAY III A CATOGRAY III A CATOGRAY III A CATOGRAY III A CATOGRAY III III A CATOGRAY	10.0 11.0 11.5 10.1 0	29.0 29.0 29.0 29.0 29.0 29.0 20.0 10-20 29 27 20 27 20 20 20 20 20 20 20 20 20 20 20 20 20	90.7 90.7 90.3 90.3 90.3 90.3 90.1 10.0 90.1 10.0 90.1 10.0 90.1 10.0 90.1 10.0 90.1 10.0 90.1	52.7 54.7 54.7 54.1 54.1 54.1 40.0 43 12 40.0 12.0 12.0 12.0 10.0 10.0 20.0 10.0 1	77.5 74.7 74.7 76.7 79.7 ALL 61-90 80 80 1400 T 61-90 90.3 10.3 90.3 10.3 90.3	100.5 100.5 100.5 107.1 107.0 71-120 10 0 0077HS 91-120 91-120 10.2 0.7 10.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	191.9 192.5 190.7 190.7 190.7 190.7 190.7 121-100 101.7 101.	107.4 215.9 306.7 211.0 202.0 RESERVAT 8 IN MINI 101-040 9 IN MINI	702.0 702.2 200.1 200.1 200.1 200.1 200.2 201.2 20.2 20	400.3 419.3 419.3 407.3 181 201-400 1 2 2 0 0 0 0 0 14.3 4.3 4.3 5.3 6.0 9.0	461. 2 1 10 6 461. 20.0 111.0 72.0	1-00 10-0 10-0 10-0 10-0 10-0 10-0 10-0	01-041 01	20.0 71.0 71.0 110.1 110.7 122.0 100.2 200 200 210 200.3 100.3 100.3 100.3 100.0 100.0	5 <u>2</u> 1 <b>.20</b>
PREGUENCY CATHORNY III III PREGUENCY CATHORNY III III III III III III III III III I	10.0 11.0 11.4 11.5 10.1 7 GF GC 1-18 204 27 9 9 97 91 IN S 1-18 90.0 12.0 12.0 10.0 10.0 10.0 10.0 10.0 1	29.0 29.0 29.0 29.0 29.0 29.0 20.0 10-20 29 27 20 27 20 20 20 20 20 20 20 20 20 20 20 20 20	91-05 90.7 90.3 90.3 91-05 90 10 0 0 3 90 10 10 10 10 10 10 10 10 10 10 10 10 10	52.7 54.7 54.7 53.1 54.1 54.1 15 12 40.0 12 12 13 14 15 12 12 12 12 12 13 13 14 15 12 12 13 14 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	77.5 74.7 74.7 76.7 79.7 ALL 61-90 80 80 1400 T 61-90 90.3 10.3 90.3 10.3 90.3	100.5 100.5 100.5 107.1 107.0 71-120 10 0 0077HS 91-120 91-120 10.2 0.7 10.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	191.9 192.5 190.7 190.2 (87072 ( 17072 ) 121-100 121-100 41.7 21.4 25.9 25.9 26.9 770.2	107.4 215.9 306.7 211.0 202.0 RESERVAT 8 IN MINI 101-040 9 IN MINI	200.0 200.1 200.1 200.1 200.1 200.1 200.1 201.2 201.2 20.2 20	201-400 201-400 201-400 1 2 1 2	461. 2 1 10 6 461. 30.0 11.0 72.4	1-00 007 1-00 007 1-00 00 00 100 00 100 00 100 00 100 00 100 00	177.0 107.0 207.2 210.0 01-444 00 10 10 10 10 10 10 10 10 10 10 10 10	171.0 771.0 771.0 114.1 120.7 122.6 1-611 200 210 210 210 210.0 110.0 110.0 110.0 110.0 110.0 110.0	3 <u>1</u> 1 • 30•

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					PITT	SOURCE,	<b>ORGATOR</b>	PETTER	MAN ENTS	N°L					
TABLE XX	- 184	PRATH	E > M	DEGAL	125 (F) 0700	- 1300	706, MB (2507)	PROC [P] 1 10000144	TATION HON	NO VINO	TOURS ? >	5. Y 1956	- 006000	<b>GR</b> 1905	
PREGLENC!		CHEST	es .												
CATEGORY		10-30	B1-45	***	61-00 5	91-180	121-100 121-100	101-240	#1-100	361-400	461+	1-90 100	PL-ALL	1-ALL 101	
IIIA	10	*	13	Š	ž	1			•			37	i	30	
1116	•	~ ~	i	1	4		1					17	1	10	
111 + 111	15	ıž	Ĭ	?	Ť	1		1	1			47	•	92 24	
111	•	•	-	1	-	•	•						•	-	
TOTAL TIP	6 10 6	ACH SI	DATION	HEVE	MID T	BHTHS	718	2 54 HER	LITES.						
CATOCARY		14-50	31-45	44-46	61-90	91-120	121-100	101-240	241 <b>-200</b>	261-480	401-	1-90	91-ALL	1-ALL	
ii ia	<b>5.1</b>	9.7	1.2	7.3	1.3	1.5			4.8			13.2	1:3	43.4 14.7	
1110		1.5	1.4	.0	1.3		2.2					7.0	1.2	10.1	
11 + 111	2.5	4.4	5.4	4.3	3.0	1.0		1.1	4.2			23.7	14.5	14.2	
111	1.2	2.4	2.3		1.1	3,5	4.5					0.1	8.0	10.0	
AVERAGE 1	INE IN	EVEN	BURATI	ON AIR	WTES A	MO TENT	NS TIM	6 1% MIN	LITES						
CATOORTY	1-15	16-30	31-45	44-40	61-90	<b>91-120</b>	121-100	101-240	241-240	761-480	481+	1-90	91-ALL	1-ALL	
II IIIA	10.2	22.5	37.9	54.8 30.0	71.4	91.0			250.0			23.4 21.4	91.0	25.°	
1116 1116	10.0	11.3	37.3	46.0	75.0		134.9					27.0 40.0	134.0	33.7	
11 + 111	7.7	22.2	37.0	93.7	74.3	104.5	162.5	184.0	230.0			10.1 24.2	173.4	44.8	
111	9.1	26.0	33.0	56.0	64.0	104.3	134.4					44.2	114.9	40.0	
PREGUÉNCY		cuesti			1400	- 5700	129224	oesenvat	ION HON	LS)					
							TIM	e in air	UTES						
CATROSKY II IIIA	1-13 13	14-30	,		41-40	71-130	121-180	*41-240	241-360	-01-480	481+	1-00	91-4LL	51 7-9FF	
	•	3	1	•	2							15		19	
1116	_	Ţ	_		į	_	_		1			2	ì		
111 + 111	•	1	1	,	- 1	1	i		1		1	14	i	ij	
POTAL TI			-			PRINTING									
								e in nii		941.445	45-	1-00	<b>61</b> -444	1-611	
EATBOOMY	2.2	1.6	2.2			1.9	121-190	*e* <b>-546</b>	441-160	-01-450	401+	4.4	71-ALL	1-ALL 7.9	
111A 1110		1.3	1.3	3.5	2.7							8.7 2.5		8.7	
1116		.4			1.4				4.5			1.5	.2.5		
111	1.3	1.2	1.7	2.9	2.4	1.7	7.3		5.3		6.5	7.5	10.1	24.3 15.3	
AVERAGE							Paul								
							TIM	T IN NI	WTES				01-ALL		
EATBOOKY 11	1-13	24.3	43.3	_		110.0	121-100	161-246	241-360	361-480	461+	1-00	110.0	1-466	
HIIA	12.3	26.3	30.0	53.0	11.5							34.7		94.7	
1116		21.5			86.0 84.0				207,0			94.7 99.7 48.7	267.0		
111.	10.0	27.0	30.7	30.3	73.0	104.0	157.3		317.0		\$12.0	#:#	217:0	76.8	
						- 0400									
_															
FREQUENCY	/ OF D	CURRE	C f			- 5555	_		ION HOU	(S)					
CATEGORY		16-30	SEF 31-43	46-60		91-126	7 5 90	6 1M M10	MTES		481+	1-90	91-ALL	1 <b>-4</b> LL	
CATEGORY	1-15	10-30 51	31-45 24	44-60 18	61-90 12	91-126	75M 121-190 4	4 IN MIN 101-240	NTES 241-340 1	361-480	481+	195	91-ALL	310	
CATEGORY II IIIA IIIB	1-15 90 40 19	16-30 51 21	31-45 24 14	18	61-90 12 6	91-126 6 6	TIM 121-100 4 5	6 IM MIN 101-240	NTES 241-340 1 2	361-460 2 1	481+	195	15 18	210	
CATEGORY II IIIA IIIA IIIC	1-15 90 40 19	16-30 51 21 14	31-45 24 14 10	18 7 9	61-90 12 6	91-126 8 4 9	71m 121-100 4 3	4 IN MIN 101-240	MTES 241-340 1 2	361-480 2		195 00 64 22	15 18	210 100 04 37	
CATEGORY II IIIA IIIB	1-15 90 40 19	16-30 51 21	31-45 24 14	18	61-90 12 6	91-126 6 6	75m 121-100	6 IM MIN 101-240	NTES 241-340 1 2	361-460 2 1	481+	195	91-ALL 18 18 20 19 87 62	210	
CATEGRAY II IIIA IIIC IIIC	1-15 90 40 19 5 27	16-30 51 21 14 5 27 12	31-45 24 14 10 3 20	10 7 9 3 10	61-90 12 6 12 13 19	91-126 4 9 2 14	7190 121-100 5 5 6 24 22	4 IM MIN 101-240 2 9 4 3 21	NTES 241-340 1 2 2 3	361-480 2 1 1 3		195 00 64 22 112	18 18 20 19 87	210 100 84 27 199	
CATEGORY IIIA IIIA IIIC III + III III	1-15 90 40 19 3 27 20	16-30 51 21 14 5 27 12 FACH DI	31-45 24 14 10 3 20 17	16 7 9 19 19 HOURS	61-90 12 6 12 12 19 19	91-120 9 9 9 10 11 7ENTHS	7 [M 121-100 4 9 8 0 24 22	4 IN MIN 101-240 2 3 4 3 21 13	MTES 2+1-340 1 2 2 3 10 9 8 8 8 10 9	361-480 2 1 1 3 5	;	105 00 64 22 112 73	15 18 20 19 87 62	216 106 84 37 109 135	
CATEGORY II IIIA IIIA IIIC III + 11I III TOTAL TII CATEGORY II	1-15 90 40 19 5 27 20 % [N I	16-30 51 21 14 5 27 12 14 16-30 21.0	31-45 24 14 10 3 20 17 MATION 31-45 19,1	18 7 9 3 19 10 40-00 10,1	61-90 12 12 19 19 13 6 AND 1	91-120 9 9 9 10 11 7ENTHS	7 [M 121-100 4 9 8 0 24 22	6 IN MIN 101-240 9 4 3 21 13 C IN MIN 101-240	MTES 2+1-340 1 2 2 3 19 4 9	361-480 2 1 1 3 5		105 00 64 22 112 73	15 18 20 19 87 62	216 100 04 27 100 135	
CATEGORY II IIIA IIIS IIIC III + 111 III TOTAL TIC CATEGORY IIIA	1-15 90 40 19 3 27 20 4E [N I 1-15 13-0 0-0	10-30 91 21 14 57 12 7ACH DI 10-30 21.0 0.0	31-45 24 14 10 3 20 19 MATION 31-45 15-1	18 7 9 3 19 0 HOURS 44-00 10-1	61-90 12 12 12 19 19 13 1 AHD 1 61-90 19-7 9-2	91-125 8 4 9 14 11 FENTHS 91-120 13-1 7.22	TIM 121-100 4 9 0 0 24 22 TIM 121-100 0.0 12.7 20.8	4 IN MIN 101-240 2 3 3 21 13 4 IN MIN 101-240 6.5 16.9	MTES 2-1-340 1 2 2 3 10 0 0 8.8 2-1-340 4.8 0.0	361-480 2 1 1 3 5 961-480 14.5	;	105 00 64 22 112 73 1-00 02.9 37.0	15 18 20 19 87 62 91-ALL 94.2 97.3 61.4	210 100 00 27 100 135 1-ALL 117-1 90-8	
CATEGORY 11 11:A 11:B 11:C 11 + 1:1 11:C 11:T TOTAL 7:1 EATEGORY 11:B 11:B	1-13 90 40 19 3 27 20 42 [M 4 1-15 15.0 0.8	10-30 91 21 14 57 12 7ACH DI 10-30 21.0 0.0	31-45 24 14 10 3 20 19 MATION 31-45 15-1	18 7 9 3 19 9 46-60 16-1 6-2 8-4 2-9	61-90 12 12 12 19 19 13 1 AHD 1 61-90 19-7 9-2	91-125 8 4 9 14 11 FENTHS 91-120 13-1 7.22	71M 121-100 4 9 9 0 24 22 71M 121-100 12-7 20-8 15-3	4 10 min 101-240 2 3 21 13 4 101-240 6.9 10.9 10.1	MTES 2-1-340 1 2 2 3 10 0 0 8.8 2-1-340 4.8 0.0	361-480 2 1 1 3 5 3 5 3 5 3 5	481+	105 00 64 22 112 73 1-00 02.9 37.0 15.6	15 18 20 19 87 62 91-ALL 94.2 97.3 61.4	216 100 27 100 135 1-ALL 117.1 90.8 100.0	
CATEGORY II IIIA IIIA IIIC III + III IIII TOTAL TII CATEGORY IIIA IIIA	1-15 90 40 19 3 27 20 4E [N I 1-15 13-0 0-0	10-30 51 21 14 5 27 12 14CH DI 16-30 21,0	31-45 24 14 10 3 20 17 MATION 31-45 13-45	18 7 9 3 19 0 HOURS 44-00 10-1	61-90 12 0 12 19 19 13 1 AND 1 61-90 19.7	91-126 8 4 9 2 14 11 7ENTHS 91-120 19,1	TIM 121-100 4 9 0 0 24 22 TIM 121-100 0.0 12.7 20.8	4 14 MIN 101-240 2 2 3 21 13 4 5 101-240 6.5 10.9	MTES 201-340 1 2 2 3 10 9 8MTES 241-340 4.8	361-480 2 1 1 3 5 961-480 14.5	;	105 00 64 22 112 73 1-00 02.9 37.0	15 18 20 17 67 62 91-ALL 94.2 57.3	210 100 00 27 100 135 1-ALL 117-1 90-8	
CATEGORY II IIIA IIIA IIIC III + III TOTAL TII CATEGORY III IIIC IIIC IIIC IIIC IIIC	1-15 90 40 19 3 27 20 1-15 1-15 13-0 0.8 3-3 -9 5-2	10-30 91 21 14 9 27 12 (ACH DO 21.0 21.0 0.0 0.0 0.0	31-43 24 14 10 3 20 19 MATION 31-45 15-1 9.0 4.0 12.3 12.6	18 7 9 3 19 9 10-1 46-09 10-1 6-2 9-4 2-9 10-8	61-90 12 0 19 19 19 19 19 19 19 19 19.7 0.2 10.2 10.2 10.2 17.1	91-126 0 4 5 2 14 11 7ENTHS 91-120 13.1 7.2 0.7 3.3 25.0 19.7	TIM 121-100 4 9 9 0 20 22 22 TIM 121-100 9.0 127-7 20.8 15.3 00.1 56.0	4 1M MIN 101-240 2 9 4 3 21 19 6.5 10.5 10.5 10.5 10.5 10.5 10.5	WTES 241-340 1 2 2 3 10 9 WTES 241-340 4.0 6.0 10.1 19.1 92.0	361-480 2 1 1 2 3 3 3 3 3 3 4 4 6 6 8 14.5 6.8 6.8 6.8 6.8	4810	105 00 04 22 112 73 1-00 02.7 97.8 99.8 15.6 70.3	15 18 20 17 87 62 91-ALL 94.2 97.3 61.4 92.7	210 100 80 87 100 135 1-ALL 117-1 70-8 100-0 499-1	
CATEGORY II IIIA IIIC IIIC III TOTAL TII CATEGORY III IIIC IIII IIIC IIIC IIIC IIIC III	1-15 90 40 19 87 20 9E [N 4 1-15 19-8 9-8 9-3 -9 9-3	16-30 91 21 14 97 12 7ACH DO 16-30 21.0 6.0 2.1 10.0 4.0	31-45 20 14 10 3 20 17 ///////////////////////////////////	18 7 9 3 19 9 1 HOURS 46-60 10-1 6-2 9-4 2-9 10-8 0-3	61-90 12 6 12 19 13 3 AHD 1 61-90 19-7 8-7 20-9 17-1 80785	91-120 0 4 5 2 14 11 7ENTHS 91-120 19.1 7.2 0.7 3.9 25.0 19.7	TIM 121-100 3 5 6 24 22 71H 121-100 18.7 70.5 15.3 60.1 56.0 7MS	4 1M MIN 101-240 2 9 3 21 19 6 1M MIN 101-240 6.9 10.1 72.0 09.0	MYES 241-360 1 2 2 3 10 0 10 8 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10	361-460 2 1 1 3 9 9 361-460 14.5 6.8 6.8 6.8 21.4	481- 481- 94.9	1-90 00 04 22 112 73 1-90 02.9 97.0 15.0 70.3 40.0	91-ALL 94-22 97-30-2 94-22 97-30-4 90-4 327-0 214-7	210 100 80 97 100 135 1-ALL 117-1 100-0 49-4 200-7	
CATEGORY III IIIA IIIB IIIC III + III III CATEGORY IIIA IIIC IIIC IIIC IIIC IIIC IIIC III	1-15 90 40 19 27 20 92 [M I 1-15 15-0 0-8 3-3 9-2 3-4 75 mg III	16-30 91 91 14 15 27 12 16-30 21.0 0.0 0.0 10.0 4.6 10.0 10.0 10.0 10.0 21.0 2	31-65 24 16 10 20 19 20 19 20 19 31-65 15-1 9.0 2.0 12.3 12.6 BURATI	16 7 9 3 19 9 1 HQURS 46-60 16-1 6-2 8-6 8-3 (GM MIII	61-90 12 6 12 19 19 19 19 19 19 19 19 19 19 19 19 19	91-120	TIM 121-100 4 9 9 9 9 9 121-100 121-100 15-3 90-0 15-3 90-0 17-100 18-3 18-3 121-100 121-100	4 1M M10 101-240 2 3 4 3 21 101-240 6.5 10.5 10.1 72.0 43.0 63.0	MYES 241-340 1 2 2 3 1 4 4 4 9 8 8 10-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	361-460 2 1 2 3 5 3 361-460 14.5 6.8 6.8 21.4 35.4	4810	1-90 02 112 73 1-90 02.9 97.0 15.0 79.3 44.0	15 18 20 19 17 7 42 91-41 91-41 91-41 116-0	216 100 30 37 190 135 1-ALL 117-1 00.8 05-0 970-1 200-7	
CATEGORY II IIIA IIIA IIIIA IIIIA IIII TOTAL TII CATEGORY IIIA IIIC IIIC IIIC IIIC IIIC IIIC III	1-15 90 40 19 27 20 4 [N 1 1-15 19-0 9-2 3-3 7 [Mg 10 1-15 10-0	16-30 91 21 14 9 27 12 (ACH DI 21.0 9.0 6.0 2.1 10.7 4.6 1 EACH 10-90 24.7 24.7 25.7	31-45 24 14 10 20 19 MATION 31-45 15-1 9-0 4-0 12-3 12-6 9-0 12-3 12-6 9-0 12-3 12-6 9-0 12-3 12-6 9-0 12-3 12-6 9-0 12-3 12-6	16 7 7 3 19 9 10-1 6-2 9-4 10-3 10-3 (GM HII 40-60 53-6 93-3	61-90 12 0 12 0 13 13 13 1400 19.7 0.2 10.8 70.9 20.9 17.1 61-90 70.5 81.0 73.0	91-120 8 4 5 2 14 11 7ENTMS 91-120 19.7 3.9 25.00 19.7 19.7 19.7 19.7 19.1 10.7	TIM 121-100 5 5 6 24 22 TIM 121-100 18.7 20.8 19.9 60.1 71M 121-100 140.8 121-100	4 1M M10 101-240 2 3 4 3 21 101-240 6.9 10.1 72.0 43.0 6 1M MII 101-240 101-240 101-240 101-240 101-240 101-240	MTES 201-300 1 2 2 3 10 0 0 0 115-1 15-1 05-7 42-0 0 00 105-1 15-1 05-7 42-0 00 200-0 200-0	361-460 2 1 3 5 5 361-460 14.5 6.6 21.4 35.4	481- 481- 94.9	1-90 02.9 112.73 1-90 02.9 97.0 15.0 79.3 46.0	15 18 20 17 20 17 27 40 27 27 21 21 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 41 41 41 41 41 41 41 41 41 41 41 41	210 100 200 277 129 135 1-ALL 170.8 100.0 400.1 200.7	
CATEGORY II IIIA IIIB IIIC III - 211 III IIIC III - 211 IIIA IIIC IIIC IIIC IIIC IIIC IIII IIII AVERAGE CATEGORY IIIA IIIG IIIC IIIC IIIC IIIC IIIC IIIC	1-15 90 40 19 5 27 27 27 27 10-15 13-19 13-19 13-19 10-19 10-11	10-30 91 21 14 15 27 12 16-30 21.0 0.0 2.1 10-90 2.1 10-90 2.4 10-90 24.7 29.9	31-65 26 16 10 3 20 19 20 19-43 15-1 9-0 6-0 2.0 12-3 12-6 917-6 97-6 97-7 97-7	16 7 9 3 19 46-60 16-1 6-2 9-4 2-9 16-3 (GM HII 93-6 93-1 99-7	61-90 12 9 12 9 13 61-90 19.7 8.2 10.8 7.0 20.9 17.3 8U7ES 61-9 70.5 81.0 73.0 73.0	91-120 8 4 5 2 10 11 7ENTHS 91-120 17,2 85,0 19,7 19,7 19,7 10,7 10,7	TIM 121-100 9 9 0 0 24 22 TIM 121-100 12.7 20.8 15.3 60.1 15.3 60.1 16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.9	6 th min 101-240 2 4 3 21 101-240 6.9 10.1 72.0 69.0 6 m min 101-240 192.5 192.6 210.8 201.2	MTES 201-300 1 2 2 3 10 0 0 0 115-1 15-1 05-7 42-0 0 00 105-1 15-1 05-7 42-0 00 200-0 200-0	361-460 2 1 3 5 5 361-460 14.5 6.6 21.4 35.4	6 2 481• 84.9 18.0	105 00 04 22 112 73 9-0 92.9 97.0 15.0 70.3 40.0	18 18 20 19 19 19 19 19 19 19 19 19 19 19 19 19	216 100 200 270 127 127 127 127 127 120 120 120 120 120 120 120 120 120 120	
CATEGORY II IIIA IIIA IIIIA IIIIA IIII TOTAL TII CATEGORY IIIA IIIC IIIC IIIC IIIC IIIC IIIC III	1-15 90 40 19 27 20 4 [N 1 1-15 19-0 9-2 3-3 7 [Mg 10 1-15 10-0	16-30 91 21 14 9 27 12 (ACH DI 21.0 9.0 6.0 2.1 10.7 4.6 1 EACH 10-90 24.7 24.7 25.7	31-45 24 14 10 20 19 MATION 31-45 15-1 9-0 4-0 12-3 12-6 9-0 12-3 12-6 9-0 12-3 12-6 9-0 12-3 12-6 9-0 12-3 12-6 9-0 12-3 12-6	16 7 7 3 19 9 10-1 6-2 9-4 10-3 10-3 (GM HII 40-60 53-6 93-3	61-90 12 0 12 0 13 13 13 1400 19.7 0.2 10.8 70.9 20.9 17.1 61-90 70.5 81.0 73.0	91-120 8 4 5 2 14 11 7ENTMS 91-120 19.7 3.9 25.00 19.7 19.7 19.7 19.7 19.1 10.7	TIM 121-100 5 5 6 24 22 TIM 121-100 18.7 20.8 19.9 60.1 71M 121-100 140.8 121-100	4 1M M10 101-240 2 3 4 3 21 101-240 6.9 10.1 72.0 43.0 6 1M MII 101-240 101-240 101-240 101-240 101-240 101-240	MYES 241-340 1 2 2 3 1 4 4 4 9 8 8 10-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	361-460 2 1 3 5 5 361-460 14.5 6.6 21.4 35.4	481- 481- 94.9	1-90 02.9 112.73 1-90 02.9 97.0 15.0 79.3 46.0	15 18 20 17 20 17 27 40 27 27 21 21 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 21 41 41 41 41 41 41 41 41 41 41 41 41 41	210 100 200 277 129 135 1-ALL 170.8 100.0 400.1 200.7	
CATEGORY II IIIA IIIA IIIA IIIA IIIC IIII IIII	1-15 90 40 19 3 27 20 4E [M 4 1-15 13.0 0.3 3.3 .9 5.2 3.4 7IME 10 10.0 10.1 10.0 10.1	16-30 91 21 16-30 21-0 21-0 21-0 2-1 16-90 2-1 16-90 2-1 10-96 2-7 24-7 25-7 25-4 25-1	31-65 26 16 10 3 20 10 3 20 11-65 15-1 9.0 6.0 2.0 12.5 12.6 900ATI 31-65 37.8 30.7 40.2 37.3	16 7 7 3 19 0 16-1 6-2 8-4 2.9 16-3 8-3 (QN H1) 93-6 93-1 99-7 54-0 93-9	61-90 12 0 12 0 13 13 13 14.8 7.0 20.9 17.3 81-90 70.5 61-90 70.6 73.6 73.6 73.6 73.6	91-120 8 4 5 2 14 11 7ENTHS 91-120 13,1 7,2 9,7 25,0 19,1 10,10 104,10 104,10 104,10	TIM 121-100 5 5 6 20 22 22 121-100 12.7 20.8 15.3 00.1 50.0 TMS 121-100 140.2 151.4 151.4 151.0 159.0	4 IN MIN 101-240 2 2 3 4 4 3 21 101-240 0.5 10-1 10-1 10-1 10-1 10-1 10-1 10-240	HTTS 241-340 2 2 3 3 10 0 0 0 0 0 0 1 15 1 0 0 0 0 0 0 0 0 0	201-480 2 1 1 3 5 5 201-480 40,0 21,4 35,4 201-480 455,0 407.0 407.0 407.0 407.0 407.0 407.0 407.0 407.0	\$4.0 18.0	1-00 04 22 112 73 1-00 02.9 97.0 19.0 19.0 19.0 29.3 29.3 29.3 29.6 42.6	18 18 20 19 187 62 91-ALL 90-2 87-3 61-4 827-6 214-7 91-ALL 120-8 129-9 129-9 129-6 220-1	210 100 100 110 117 117-1 100-8 100-4 200-1 200-7	
CATEGORY III IIIA IIIA IIIA IIIA IIIA IIIA III	1-15 	10-30 91 21 14 9 27 12 16-30 2.1 10-30 2.1 10-9 4.0 1 EACH 10-90 24.7 25.7 25.4 25.1 25.6 25.1 25.6 26.7 26.7 27.7 28.7 28.7 28.7 28.7 28.7 28.7 28	31-65 26 16 10 20 19 MATTER 31-65 15-1 9.0 6.6 2.0 12.3 12.6 BURATT 31-65 37.8 37.8 37.8 37.9 37.9 39.7	18 7 9 3 19 9 10-1 6-2 8-4 2-9 10-3 10-3 10-3 10-3 10-3 10-3 10-3 10-3	61-00 12 19 19 19 19 18 61-00 19.7 8.2 10.8 7.0 20.9 17.1 807E5 61-00 70.9 81.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 7	91-126 4 5 2 10 11 7ENTHS 91-120 19.7 3.5 29.0 19.7 19.7 19.7 10	TIM 121-100 5 5 6 6 24 22 22 22 121-100 12.7 20.8 15.3 60.1 121-100 146.8 121-100 146.8 151.6 151.6 152.6 153.6	4 1M MIN 101-240 9 4 3 21 13 21 101-240 10-3	MYTES 241-340 2 2 3 10 0 0 8UTES 241-340 4.8 6.0 10.1 15.1 19.7 42.0 8UTES 241-340 80.0 10.1 17.1 19.7 19.7 19.7 19.7 19.7 19.7 19	361-460 2 1 1 3 3 3 361-460 14.5 6.8 21.4 361-400 455.0 407.0 420.4 85)	\$4.0 18.0	1-90 64- 212 73 1-90 82-9 97-0 15-0 79-3 44-0 23-3 23-3 23-6 37-7 37-8	91-ALL 90-2 91-ALL 90-2 91-ALL 90-2 91-4 91-4 196-9 196-9 196-9 196-9 196-9 196-9	210 100 100 110 117 117-1 100-8 100-4 200-1 200-7	
CATEGORY III IIIA IIIIA IIIIA IIIIC IIII IIII IIII	1-15 90 00 11-15 11-6 11-6 11-6 11-6 11-6 11-6 11-	10-30 51 21 14 57 27 12 14 16-30 16-30 16-30 19-70 19	31-65 26 10 32 20 19 ARATICA 31-65 15-1 9-0 6-0 2-0 12-3 12-6 31-65 37-9 37-9 37-9 37-9 37-9 37-9 37-9 37-9	18 7 9 3 19 9 6 MDUR! 46-60 16-8 16-8 8-3 (GM MII 46-60 93-6 93-7 93-7 93-7 93-7 93-7 93-7	61-90 12 0 0 19 13 13 1 AND 1 1-90 17-3 18-8 7-0 17-3 18-7 18-7 18-7 18-7 18-7 18-7 18-7 18-7	91-126 9 4 9 7 10 1 7ENTMS 91-120 19.1 7.2 9.7 3.5 25.0 19.7 19.7 19.7 19.7 19.7 10.7	TIM 121-100 9 9 9 0 0 22 22 22 22 121-100 100-2 121-100 140-2 151-2 150-2 15	4 IN MIN 101-240 101-240 2	NITES 201-340 2 2 2 3 3 10 9 9 10-1 10-1 10-1 10-1 241-340 241-340 241-340 241-340 241-340 241-340 241-340 241-340 241-340	361-460 2 1 1 3 3 3 361-460 14.5 6.8 21.4 361-400 455.0 407.0 420.4 85)	\$4.0 18.0	1-90 04. 05. 06. 07. 11.2 77. 1-90 15. 16. 17. 17. 17. 17. 17. 17. 17. 17	15 18 20 18 37 62 91-4LL 30-2 327-0 214-7 91-4LL 130-1 193-9 104-1 199-0 220-1 207-8	216 100 00 37 100 135 1-ALL 117-1 00.8 200.1 200.7 200.7 1-ALL 35.0 103.0 103.0 120.0 120.0	
CATEGORY III IIIA IIIA IIIA IIIA IIIA IIIA III	1-15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10-30 51 51 51 14 57 12 14 15 12 12 16-30 0.0 0.0 0.0 16-30 16-	31-65 26 16 10 20 19 MATTER 31-65 15-1 9.0 6.6 2.0 12.3 12.6 BURATT 31-65 37.8 37.8 37.8 37.9 37.9 39.7	18 77 9 31 19 9 1 10 10 11 10 10	61-00 12 19 19 19 19 18 61-00 19.7 8.2 10.8 7.0 20.9 17.1 807E5 61-00 70.9 81.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 7	91-120 4 5 2 14 11 7ENTHS 91-120 19.7 35.9 19.7 35.9 19.7 104.9 104.9 104.9 104.3 107.5	TIM 121-100 9 9 20 20 20 111-100 9 10-7 10-7 10-7 10-7 10-7 10-7 10-7 10-7	4 1M MIN 101-240 29 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NTTES 201-340 1 2 2 3 3 10 0 0 10-11 0 0 10-11 0 0 10-1 0	361-460 2 1 1 3 3 3 361-460 14.5 6.8 21.4 361-400 455.0 407.0 420.4 85)	\$4.9 18.0 481-	1-90 92.9 97.8 11-90 92.9 97.8 15.8 79.3 46.0 23.3 23.3 23.6 42.0 97.7 97.8	15 18 20 18 37 62 91-44L 30-2 327.0 214.7 91-44L 139.0 109.0 229.1 297.0	216 100 00 27 199 135 1-ALL 117-1 00.8 100.0 45.0 59.1 200.7 101.0 120.0 119.9	
CATEGORY III IIIA IIIA IIIA IIIA IIIA IIIA III	1-19 400 400 400 400 400 400 400 400 400 40	10-30 51 51 51 14 57 12 14 15 12 12 16-30 0.0 0.0 0.0 16-30 16-	31-45 24 14 16 10 20 20 17 9.6 6 6 2.0 12.3 12.6 12.3 12.6 9.6 7.6 12.3 12.6 9.6 7.6 12.3 12.6 12.3 12.6 12.3 12.6 12.3 12.6 12.0 12.3 12.3 12.6 12.3 12.6 12.6 12.6 12.6 12.6 12.6 12.6 12.6	18 7 9 3 19 9 9 9 1 MDUR! 446-06 10-12 10-	61-90 12 12 12 12 12 19 17 19 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	91-126	Tim 121-100 0 0 20 20 20 21 121-100 12.7 20.8 15.3 00.1 121-100 10.7 10.8 10.9	4 1M MIN 101-240 101-240 1240 1240 1240 125 125 125 125 125 125 125 125 125 125	MITES 241-360 4.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6	361-480 2 1 1 2 3 3 3 3 4 4 4 3 4 4 4 4 4 4 4 4 4 4 4	\$4.9 18.0 481-	1-00 1-00	91-ALL 290-187-87-97-97-97-91-4LL 291-297-9-91-91-91-91-91-91-91-91-91-91-91-91-9	210 00 20 100 100 100 100 100 10	
CATEGORY III IIIA IIIA IIIIA	1-15 - 1-	16-36 16-36 21 21 21 21 27 27 27 21 21 20 20 21 16-30 21 21 21 21 21 21 21 21 21 21	31-45 24 14 14 10 10 3 20 17 9.60 6 2.0 12.3 12.6 12.5 12.6 9.6 2.0 12.3 12.6 9.6 2.0 12.3 12.6 12.3 12.6 12.3 12.6 12.3 12.6 12.0 12.3 12.5 12.6 12.6 12.6 12.6 12.6 12.6 12.6 12.6	18 7 9 9 3 10 9 9 9 9 16-18 16-28 16	61-90 12 9 12 9 13 13 14 16 1-90 15 17 16 18 22 17 17 17 18 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	91-120	Tim 121-100 0 0 20 20 20 21 121-100 12.7 20.8 15.3 00.1 121-100 10.7 10.9	4 1M MIN 101-240 101-240 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	MITES 241-340 1 2 2 3 3 0 10 9 9  MITES 241-340 10.1 15.1 192.7 42.0 MITES 241-340 20.0 202.7 220.0 202.7 200.7 20	361-480 2 1 1 1 3 9 361-480 431.4 351.4 361-400 407.0	\$4.0 18.0 481+ 546.8 946.8 941.0	198 64 64 64 64 64 64 64 64 64 64 64 64 64	91-ALL 190-2 91-ALL 190-2 91-3 91-3 91-3 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9	210 100 207 107 107 107 107 107 107 107 1	
CATEGORY III IIIA IIIA IIII IIII IIII IIII III	1-15 -00 10 10 10 10 10 10 10 10 10 10 10 10 1	16-36 16-36 21 21 21 21 21 27 27 27 21 21 20 20 40 60 60 21 16-30 20 16-30 20 40 40 40 40 40 40 40 40 40 4	21-65 24-64 14-64 16-62 20-7 20-7 20-7 15-11-9-0 6-6-62 21-53 12-65 27-68 27-68 27-7 29-7 39-7 49-7 49-7 49-7 49-7 49-7 49-7 49-7 4	18	61-90 12 0 12 0 17 13 AMP 1 61-90 17-1 18-2 18-8 7-4 24-9 17-1 17-1 17-1 17-1 61-90 17-1 17-1 61-90 17-1 17-	91-120 0 0 9 2 10 11 11 11 11 11 11 11 11 11	Tim 121-100 9 9 24 22 22 121-100 127-100 127-100 127-100 121-100 121-100 121-100 121-100 121-100 121-100 121-100 121-100 121-100 121-100 121-100 121-100 121-100 121-100 121-100	4 1M MIN 101-240 29 3 4 3 3 21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MTTS 241-340 2 2 3 3 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	361-480 2 1 3 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	94.9 18.0 481-	1-00 02.0 11.2 73 1-00 02.0 97.0 15.0 17.0 25.3 25.3 25.3 25.3 27.7 37.0	15 18 20 18 37 20 18 30,2 31,2 31,3 31,4 32,0 214,7 91-44,1 190,0 226,1 207,0	216 100 207 109 109 1-ALL 100.6 100.6 100.6 100.7 100.6 100.7 100.6 100.7 100.6 100.7 100.6 100.7 100.6 100.7	
CATEGORY III IIIA IIIA IIIIA	1-15 -00 10 10 10 10 10 10 10 10 10 10 10 10 1	16-36 16-36 21 21 21 21 21 27 27 27 21 21 20 20 40 60 60 21 16-30 20 16-30 20 40 40 40 40 40 40 40 40 40 4	21-65 24-64 14-64 16-62 20-7 20-7 20-7 15-11-9-0 6-6-62 21-53 12-65 27-68 27-68 27-7 29-7 39-7 49-7 49-7 49-7 49-7 49-7 49-7 49-7 4	18	61-90 12 0 12 0 17 13 AMP 1 61-90 17-1 18-2 18-8 7-4 24-9 17-1 17-1 17-1 17-1 61-90 17-1 17-1 61-90 17-1 17-	91-120 0 0 9 2 10 11 11 11 11 11 11 11 11 11	Tim 121-100 20 20 20 20 20 20 21 121-100 12.7 20.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 1	4 1M MIN 101-240 2 3 4 3 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MITES 241-340 2 2 3 3 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	361-480 2 1 1 1 3 9 361-480 431.4 351.4 361-400 407.0	\$4.0 18.0 481+ 546.8 946.8 941.0	198 64 64 64 64 64 64 64 64 64 64 64 64 64	91-ALL 190-2 91-ALL 190-2 91-3 91-3 91-3 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9 190-9	210 100 207 107 107 107 107 107 107 107 1	
CATEGORY III IIII IIII IIII IIII IIII IIII II	1-15 1-15 1-15 1-15 1-15 1-15 1-15 1-15	10-30 10-30 21 21 14 3 27 21 21 22 22 22 4.6 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	31-65 10-65 10-65 10-65 20-7 20-7 20-7 20-65 60-65 60-65 20-65	186 7 7 9 3 1 9 9 9 3 1 1 1 1 1 1 1 1 1 1 1 1 1	01-90 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12	91-120 9 2 14 9 2 14 9 1-120 19-117 19-120 19-117 19-120 104-2 104-2 104-3	Tim 121-100 0 0 20 20 20 21 121-100 12.7 20.8 15.3 00.1 121-100 140.2 151.4 15	4 1M MIN 101-240 2 3 4 3 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HTTES 241-340 12 23 31 19 9 HTTES 241-340 10.1 19.1 19.1 92.7 42.00 10.2 200.2	361-480 2 1 1 1 2 3 3 3 3 4 4 4 3 4 4 4 3 4 4 4 4 4 4 4	\$4.0 18.0 481+ 546.8 946.8 941.0	1-90 1-90	91-ALL 190-32 91-ALL 190-2 91-3L 91-3 91-4L 190-9 110-9 10-9	210 100 007 109 109 109 109 100.0 10	
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